

ENVIRONMETRICS

2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

RIEDEL ENVIRONMENTAL SERVICES, INC.
18207 EDISON AVENUE
CHESTERFIELD, MO 63005-3703

ATTN: KEN BRAIG

INVOICE # 31339
PROJECT # 8168 SAUGET LANDFILL SITE G

ANALYSIS REPORT

PCBs IN SOIL

SW-846 8080

<u>LAB NO.</u>	<u>SAMPLE NO.</u>	<u>IDENTIFICATION</u>	<u>TOTAL ppm</u>	<u>TYPE</u>
PCB-3389		SOIL METHOD BLANK A	<2	--
9503/436-001		QA-1	226	1260
9503/436-001	MATRIX SPIKE	QA-1	122%	RECOVERY
9503/436-002		QA-2	5,300	1260
9503/436-003		QA-3	39	1260
9503/436-004		QA-4	20	1260
9503/436-005		QA-5	18	1260
9503/436-006		QA-6	18	1260
9503/436-007		QA-7	17	1260
9503/436-008		QA-8	20	1260
9503/436-009		QA-9	14	1260
9503/436-009	MATRIX SPIKE	QA-9	88%	RECOVERY
9503/436-010		QA-10	21	1260
9503/436-011		WA-1	154	1260
9503/436-012		WA-2	68	1260
9503/436-013		WA-3	85	1260

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PAGE TWO

<u>LAB NO.</u>	<u>SAMPLE NO.</u>	<u>IDENTIFICATION</u>	<u>TOTAL ppm</u>	<u>TYPE</u>
BLANK		SOIL METHOD BLANK B	<2	--
9503/436-014		WA-4	15	1260
9503/436-015		WP-1	115	1260
9503/436-016		DA-1	<15	--
9503/436-017		DA-3	<3	--

DATE COLLECTED : 3/23/95
DATE RECEIVED : 3/27/95 12:57
DATE ANALYZED : 3/29-31/95
ANALYST : C.D.

APRIL 4, 1995


WAYNE L. COOPER
LABORATORY DIRECTOR

INTERNAL CUSTODY TRANSFER RECORD/LABORATORY WORK REQUEST

Page 1

COC : 009022

Status: Normal

Company Name: Riedel Environmental Services Number: R013

Contact: Ken Braig

Date Due (PM): 04/06/95

Project No.: 8168

Address: 18207 Edison Avenue

Date Received: 03/27/95

Date Due (Client): 04/10/95

P.O. No.:

City/State/Zip: Chesterfield, Mo. 63017

Date Logged: 03/27/95

Mode: Fax

Quotation No.:

Sample Id. No.	Client Sample Name/Number	Matrix	Container	Preservative	Date Collected	Temp	Tests
9503000436-001-01	QA-1	SOIL	1-250 ml GLASS	Cold	03/23/95		MODIFIED PCB-8080M
	Special Instructions: QA/QC PROTOCOL SPECIFIED IN RFP						
9503000436-002-01	QA-2	SOIL	1-250 ml GLASS	Cold	03/23/95		MODIFIED PCB-8080M
	Special Instructions: QA/QC PROTOCOL SPECIFIED IN RFP						
9503000436-002-02	QA-2	SOIL	1-250 ml GLASS	Cold	03/23/95		SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-8270
	Special Instructions: QA/QC PROTOCOL SPECIFIED IN RFP						
9503000436-003-01	QA-3	SOIL	1-250 ml GLASS	Cold	03/23/95		MODIFIED PCB-8080M
	Special Instructions: QA/QC PROTOCOL SPECIFIED IN RFP						
9503000436-004-01	QA-4	SOIL	1-250 ml GLASS	Cold	03/23/95		MODIFIED PCB-8080M
	Special Instructions: QA/QC PROTOCOL SPECIFIED IN RFP						
9503000436-005-01	QA-5	SOIL	1-250 ml GLASS	Cold	03/23/95		MODIFIED PCB-8080M
	Special Instructions: QA/QC PROTOCOL SPECIFIED IN RFP						
9503000436-006-01	QA-6	SOIL	1-250 ml GLASS	Cold	03/23/95		MODIFIED PCB-8080M
	Special Instructions: QA/QC PROTOCOL SPECIFIED IN RFP						
9503000436-007-01	QA-7	SOIL	1-250 ml GLASS	Cold	03/23/95		SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-8270 MODIFIED PCB-8080M
	Special Instructions: QA/QC PROTOCOL SPECIFIED IN RFP						
9503000436-008-01	QA-8	SOIL	1-250 ml GLASS	Cold	03/23/95		MODIFIED PCB-8080M
	Special Instructions: QA/QC PROTOCOL SPECIFIED IN RFP						
9503000436-009-01	QA-9	SOIL	1-250 ml GLASS	Cold	03/23/95		MODIFIED PCB-8080M
	Special Instructions: QA/QC PROTOCOL SPECIFIED IN RFP						
9503000436-010-01	QA-10	SOIL	1-250 ml GLASS	Cold	03/23/95		MODIFIED PCB-8080M
	Special Instructions: QA/QC PROTOCOL SPECIFIED IN RFP						
9503000436-011-01	WA-1	SOIL	1-250 ml GLASS	Cold	03/23/95		MODIFIED PCB-8080M
	Special Instructions: QA/QC PROTOCOL SPECIFIED IN RFP						
9503000436-012-01	WA-2	SOIL	1-250 ml GLASS	Cold	03/23/95		MODIFIED PCB-8080M
	Special Instructions: QA/QC PROTOCOL SPECIFIED IN RFP						
9503000436-013-02	WA-3	SOIL	1-250 ml GLASS	Cold	03/23/95		MODIFIED PCB-8080M
	Special Instructions: QA/QC PROTOCOL SPECIFIED IN RFP						
9503000436-014-01	WA-4	SOIL	1-250 ml GLASS	Cold	03/23/95		MODIFIED PCB-8080M
	Special Instructions: QA/QC PROTOCOL SPECIFIED IN RFP						
9503000436-015-01	WP-1	SOIL	1-250 ml GLASS	Cold	03/23/95		MODIFIED PCB-8080M
	Special Instructions: QA/QC PROTOCOL SPECIFIED IN RFP						
9503000436-016-01	DA-1	SOIL	1-250 ml GLASS	Cold	03/23/95		MODIFIED PCB-8080M
	Special Instructions: QA/QC PROTOCOL SPECIFIED IN RFP						
9503000436-017-01	DA-3	SOIL	1-250 ml GLASS	Cold	03/23/95		MODIFIED PCB-8080M
	Special Instructions: QA/QC PROTOCOL SPECIFIED IN RFP						

Items Transferred
18

Relinquished By

Date 03/27/95 PM Signature: *Annel Morris*
Anne Morris
Client Services Rep.Logged In By
Ann Quinlisk
Sample Login Specialist

Date 03/27/95 Time 12:57:37

RIEDEL ENVIRONMENTAL SERVICES, INC.
CHAIN OF CUSTODY RECORD

No 1914

SEE REVERSE FOR INSTRUCTIONS

Page 1 of 2

Project Name: <u>Savage Landfill Site G</u> Project Number: <u>8168</u> Results To: <u>Ken Bray</u> <u>RES</u> <u>1102 Edison Ave</u> <u>Chattanooga TN 37405</u> Telephone # <u>314-532-7650</u> Fax # <u>314-536-1655</u>	Lab: <u>ENVIRONMETRICS</u> Special Instructions: Special Detection Limits: _____ Analyze Each Phase of Sample <u>MA</u> YES _____ NO _____ ONLY # _____ Analyze _____ Phase of Sample _____ Analyze Sample As Is, Dry Weight, Wet Weight _____ Sample Results Required By: 24hr. _____ 72hr. _____ 5 Day _____ Normal <u>X</u> Specific Date: _____ Verbal _____ FAX, Mail _____ FED EX _____ QA Data Package Required By: _____ Via Mail _____ Via Fed Ex _____
• ALL WORK TO BE PERFORMED PER RFP. ALSO REFER TO RIEDEL PURCHASE ORDER _____ SUBCONTRACT# <u>8168-02</u> • CHANGES TO RFP: _____	

Lab ID #	Sample ID#	Sample Location	Matrix	Collection Date Time	Preservatives Code	CONTAINER		No. of Containers	Test Methods									
						SIZE	TYPE		PCB	Ses-Verdies								
	QA-1	Query	Soil	3/23/95		8oz	jar	1	X	X								
	QA-2																	
	QA-3																	
	QA-4																	
	QA-5																	
	QA-6																	

QA/QC Protocol: Yes _____ No <u>X</u> • Contract Laboratory Programs: _____ • QA/QC Control Guidance For Removal Activities (EPA Document # EPA/540/G-90/004 April 1, 1990): <u>X</u> _____ • QA/QC Protocol Specified In RFP: <u>X</u> _____	Riedel's QA/QC Level I _____ II <u>X</u> _____ III _____ IV _____	Preservatives Codes: 1. Sulfuric Acid H ₂ SO ₄ _____ 2. Sodium Sulfite Na ₂ SO ₃ _____ 3. Hydrochloric Acid HCl _____ 4. Nitric Acid HNO ₃ _____ 5. Sodium Hydroxide NaOH _____ 6. None N <u>(6)</u> _____ 7. Cool 4° C _____
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PERSONNEL CUSTODY RECORD

Relinquished By: (Signature) <u>Ken Bray</u>	Date <u>3-27-95</u>	Time AM/PM <u>10:59</u>	Received By: (Signature) <u>[Signature]</u>	Date <u>3-27-95</u>	Time AM/PM <u>10:59</u>
Relinquished By: (Signature) _____	Date _____	Time AM/PM _____	Received By: (Signature) _____	Date _____	Time AM/PM _____
Relinquished By: (Signature) _____	Date _____	Time AM/PM _____	Received By: (Signature) _____	Date _____	Time AM/PM _____

RIEDEL ENVIRONMENTAL SERVICES, INC.
CHAIN OF CUSTODY COMPLETION INSTRUCTIONS

**Note: Always remember that each and every change to
any item on the Chain-of-Custody must be lined through,
initialed, and dated.**

1. Project Name: Actual site where samples are collected.
2. Project Number: Actual number assigned to track events and costs of job.
3. Lab: Name of laboratory being utilized for the sample analysis.
4. Results To / Telephone # / Fax # / : Mailing address where sample results must be mailed. Also, phone number and fax number which correspond to mailing address being utilized.
5. Special Instructions:
 - Special Detection Limits: Have any specific detection limits been established for site ? If yes, they must be identified
 - Analyze each phase of sample: Yes or No.
 - Analyze a specific phase or phases of sample(s). Appropriate phase or phases
 - Analyze Sample: As is ____ Dry Weight ____ Wet Weight ____
6. All work to be performed per RFP: Refer to Riedel Purchase Order Number and Master Subcontract Agreement Number
a. If no changes to RFP indicate N/A, b. If changes have occurred, indicate here, or attach additional documentation as required.
7. Sample Results Required By: Check appropriate box - 24hr, 48hr, 72hr, 5Day, Normal, or enter specific date required.
Then indicate if by verbal, fax, mail, Fed Ex.
8. QA Data Package Required By: Enter date and time. Plus indicate whether by fax, federal express, or mail.
9. Lab ID # : Sample Number established by laboratory.
10. Sample ID # : Riedel site specific sample number.
11. Matrix: Identify if soil, water, sludge, sediment, etc.
12. Collection: Enter date and time sample was collected.
13. Container / Number of Containers / Size / Type: Enter number of containers, specific sample container size, and type. Example: 8-oz. Amber Jar
14. Preservative No.: From preservative box determine appropriate item number.
15. Test Method: Indicate which EPA or SW846 Method laboratory is to use for each parameter of each sample.
16. QA/QC Protocol: Must indicate which protocol is to be used. The area that indicates QA/QC Level I, II, III, and IV, you must indicate if the lab's QA/QC level is to be used or Riedel's Level, if different from RFP.
17. Preservatives: Choose item 1 through 7 and utilize in preservative number column.
18. Relinquished By: This requires the signature of a person relinquishing the sample. The date and time (a.m. or p.m.) must also be recorded.
19. Received By: This requires the signature of the person who receives the sample from the individual who relinquishes the sample. The date and time (a.m. or p.m.) must also be recorded.
20. - Continuation Sheet: Must be completed in full when seven or more samples are taken.
21. **Any and all lines / items left blank: you must indicate an N/A for each and every line and / or item.**

SEE REVERSE FOR INSTRUCTIONS

Project Name: Sage Landfill Site G
 Project Number: 8168
 Results To: Ken Bralg
 Telephone # 532-7660 Fax # 536-1655
 Lab: Environmental
 Special Instructions:
 Special Detection Limits: 44 Yes No Only #
 Analyze Each Phase of Sample 44 Yes No Only #
 Analyze Phase of Sample
 Analyze Sample As Is, Dry Weight, Wet Weight

Lab ID #	Sample ID#	Sample Location	Matrix	Collection Date Time	Preservatives Code		CONTAINER		No. of Containers	Test Methods					
					SIZE	TYPE									
	QA-7	Quarry	Soil	3/23/85		80 gal	7	X	PCB	X	Semi-volatiles				
	QA-8														
	QA-9														
	QA-10														
	WA-1	Waste													
	WA-2														
	WA-3														
	WA-4														
	WP-1	water pit													
	DA-1	Deposition Area													
	DA-3														

Relinquished By: (Signature) [Signature] Date 3-27-95 Time AM/PM 10:59
 Relinquished By: (Signature) [Signature] Date Time AM/PM
 Relinquished By: (Signature) Date Time AM/PM
 Relinquished By: (Signature) Date Time AM/PM

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